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NOV 15 2006

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently Amended) A method for correlating a first sensor to a second sensor in an intrusion detection system, the first and second sensors each maintaining belief over a number of possible states of the system, the method comprising the steps of:

(a) transmitting to the first sensor information about the second sensor's belief state, said belief state indicating a state of at least one system resource or service directly monitored by the second sensor; and

(b) adjusting a prior belief state of the first sensor, said belief state indicating a state of at least one system resource or service directly monitored by the first sensor, the adjustment based at least in part on the second sensor's belief state.

2. (Original) The method of claim 1 wherein the first and second sensors are different types of sensors.

3. (Original) The method of claim 2 wherein the first sensor is a probabilistic sensor.

4. (Currently Amended) A method for reducing false alarms generated by an intrusion detection system when a monitored resource is degraded or compromised, the intrusion detection system having a first and second sensors each maintaining belief over a number of possible states of the system, the method comprising the steps of:

(a) transmitting to the first sensor all or part of the belief of the second sensor regarding an apparent normal, degraded or compromised state of a resource directly monitored ~~resource~~ by the second sensor; and

(b) adjusting a prior belief state of the first sensor regarding an apparent normal, degraded or compromised state of a resource directly monitored by the first sensor so that an erroneous transaction with the degraded or compromised resource does not generate an alarm.

5. (Currently Amended) A method for enhancing the sensitivity of an intrusion detection system that monitors a plurality of computer system resources, the intrusion detection system having a first and second sensors each maintaining belief over a number of possible states of the system, the method comprising the steps of:

(a) transmitting to the first sensor all or part of the belief of the second sensor regarding the existence or validity of services supported on ~~monitored~~ computer system resources directly monitored by the second sensor; and

(b) adjusting a prior belief state of the first sensor regarding the existence or validity of services supported on computer system resources directly monitored by the first sensor so that an attempted communication with a nonexistent system service or resource appears suspicious.

6. – 9. (Cancelled)

10. (New) A computer readable medium containing an executable program for correlating a first sensor to a second sensor in an intrusion detection system, the first and second sensors each maintaining belief over a number of possible states of the system, where the program performs the steps of:

(a) transmitting to the first sensor information about the second sensor's belief state, said belief state indicating a state of at least one system resource or service directly monitored by the second sensor; and

(b) adjusting a prior belief state of the first sensor, said belief state indicating a state of at least one system resource or service directly monitored by the first sensor, the adjustment based at least in part on the second sensor's belief state.

11. (New) Apparatus for correlating a first sensor to a second sensor in an intrusion detection system, the first and second sensors each maintaining belief over a number of possible states of the system, the apparatus comprising:

(a) means for transmitting to the first sensor information about the second sensor's belief state, said belief state indicating a state of at least one system resource or service directly monitored by the second sensor; and

(b) means for adjusting a prior belief state of the first sensor, said belief state indicating a state of at least one system resource or service directly monitored by the first sensor, the adjustment based at least in part on the second sensor's belief state.

12. (New) A computer readable medium containing an executable program for reducing false alarms generated by an intrusion detection system when a monitored resource is degraded or compromised, the intrusion detection system having a first and second sensors each maintaining belief over a number of possible states of the system, where the program performs the steps of:

(a) transmitting to the first sensor all or part of the belief of the second sensor regarding an apparent normal, degraded or compromised state of a resource directly monitored resource by the second sensor; and

(b) adjusting a prior belief state of the first sensor regarding an apparent normal, degraded or compromised state of a resource directly monitored by the first sensor so that an erroneous transaction with the degraded or compromised resource does not generate an alarm.

13. (New) A computer readable medium containing an executable program for enhancing the sensitivity of an intrusion detection system that monitors a plurality of computer system resources, the intrusion detection system having a first and second sensors each maintaining belief over a number of possible states of the system, where the program performs the steps of:

(a) transmitting to the first sensor all or part of the belief of the second sensor regarding the existence or validity of services supported on ~~monitored~~ computer system resources directly monitored by the second sensor; and

(b) adjusting a prior belief state of the first sensor regarding the existence or validity of services supported on computer system resources directly monitored by the first sensor so that an attempted communication with a nonexistent system service or resource appears suspicious.